Genetics Quick Quiz #2

I have two pet dragons, Lois and Peter. I am worried because they just gave birth to several baby dragons and only about half of them breathe fire. I mated Peter to another dragon named Jillian. ¾ of the babies could breathe fire. I mated Lois to another dragon named Steve and none of the babies could breathe fire. Fire breathing is a recessive trait.

Peter x Lois = 50% Fire 50% no fire

Peter x Jillian = 75% Fire 25% no fire

Lois x Steve = 100% no fire

What are the genotypes of all my dragons?   
Who can breathe fire and who can’t?

|  |  |  |
| --- | --- | --- |
| Dragon | Genotype | Phenotype |
| Peter |  |  |
| Lois |  |  |
| Jillian |  |  |
| Steve |  |  |

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